Quantum Leaps, LLC is a North Carolina based developer of modern, embedded real-time software especially suitable for mission-critical systems. Our award-winning QP™ real-time framework/RTOS and the QM™ modeling tool have been chosen by companies around the world to build electronic products ranging from weapon systems to implantable medical devices.

Core Competences

- Expertise in modern, embedded software architecture based on event-driven, asynchronous programming model, which is generally safer than the traditional shared-state concurrency based on a conventional Real-Time Operating System (RTOS)
- Software design based on hierarchical state machines (UML statecharts) with traceability from design to code
- Graphical modeling (UML)
- Automatic code generation
- Hard real-time and custom real-time kernels
- Embedded microcontrollers, such as ARM Cortex-M
- Static code analysis, MISRA standards
- Software tracing and unit testing
- Training of teams in modern embedded programming

Differentiators

- Unique, lightweight QP™ real-time framework/RTOS based on event-driven active objects (actors) and hierarchical state machines (UML statecharts) with traceability from design to code
- “Low-ceremony” QM™ graphical modeling tool with automatic code generation of production-quality code
- Built-in, lightweight real-time kernels for hard real-time performance supported on ARM Cortex-M (M0-M7)
- Unique QTools™ collection of host-based tools, including the QUTest™ unit-testing harness
- Trusted worldwide by over 250 customers across a wide variety of markets, such as: defense, medical, industrial, communication, transportation and many others

Representative Customers

- Sandia National Laboratories
- CUBIC
- General Dynamics
- Rockwell Collins
- NASA
- IBM
- DRS
- HITACHI
- Medtronic
- TRW
- JOHN DEERE
- Honeywell
- BOSCH
- ABB
- Toshiba
- L3
- FERNAU
- TOSHIBA

NAICS Codes

- 423430 Computer and Computer Peripheral Equipment and Software Merchant Wholesalers (Primary)
- 541611 Other Computer Related Services
- 541512 Computer Systems Design Services
- 541330 Engineering Services
- 541511 Custom Computer Programming Services
- 541611 General Consulting Services

Company Snapshot

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